

Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/724,869
	Filing Date	November 28, 2000
	First Named Inventor	Juha Punnonen, et al.
	Group Art Unit	1639
	Examiner Name	Teresa D. Wessendorf
	Attorney Docket Number	0155.130US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
TW	1	5,718,883		Harlan et al.	02-17-1998	
	2	5,738,852		Robinson et al.	04-14-1998	
	3	5,858,776		Ostrand-Rosenberg et al.	01-12-1999	
	4	5,861,310		Freeman et al.	01-19-1999	
	5	6,071,716		Freeman et al.	06-06-2000	
	6	6,084,067		Freeman et al.	07-04-2000	
✓	7	6,149,905		Ostrand-Rosenberg et al.	11-21-2000	

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FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
TLW	8	WO	94/24267		Robinson, William S.	10-27-1994	_____	
TLW	9	WO	95/23859		Brigham & Women's Hospital; Dana-Farber Cancer Institute	09-08-1995	_____	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s).	T
TW	10	Fargeas, C.A., et al., "Identification of Residues in the V Domain of CD80 (B7-1) Implicated in Functional Interactions with CD28 and CTLA-4," Journal of Experimental Medicine 182(3):667-675 (1995)	
	11	Freeman, G.J. et al., "Cloning of B7-2: A CTLA-4 Counter-Receptor That Costimulates Human T Cell Proliferation," Science 262:909-911 (1993)	
	12	Guo, Y., et al., "Mutational Analysis and an Alternatively Spliced Product of B7 Defines Its CD28/CTLA-4 binding Site on Immunoglobulin C-like Domain," Journal of Experimental Medicine 181(4):1345-1355 (1995)	
	13	He, X-S. et al., "Costimulatory protein B7-1 enhances the cytotoxic T cell response and antibody response to hepatitis B surface antigen," Proc. Natl. Acad. Sci. USA 93:7274-7278 (1996)	
	14	Kim, J.J. et al., "Engineering DNA Vaccines via Co-delivery of Co-Stimulatory Molecule Genes," Vaccine 16(19):1828-1835 (1998)	
	15	Kuchroo, V.K. et al., "B7-1 and B7-2 Costimulatory Molecules Activate Differentially the Th1/Th2 Developmental Pathways: Application to Autoimmune Disease Therapy," Cell 80:707-718 (1995)	
	16	Metzler, W., et al., "Solution Structure of Human CTLA-4 and Delineation of a CD80/CD86 Binding Site Conserved in CD28," Nature Structural Biology 4(7):527-531 (July 1997)	
✓	17	Parsons, K.R., et al., "Cloning of Cattle CD80," Immunogenetics 49(3):231-234 (1999)	

Examiner Signature	T. Wessendorf	Date Considered	6/16/03
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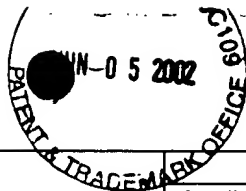
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thw	18	Peach, R.J., et al., "Both Extracellular Immunoglobulin-like Domains of CD80 Contain Residues Critical for Binding T Cell Surface Receptors CTLA-4 and CD28," Journal of Biological Chemistry 270(36):21181-21187 (1995)	
↓	19	Rennert, P. et al., "The IgV domain of human B7-2 (CD86) is sufficient to co-stimulate T lymphocytes and induce cytokine secretion," International Immunology 9(6):805-813 (1997)	
↓	20	Wu, Y., "CTLA-4-B7 Interaction is Sufficient to Costimulate T Cell Clonal Expansion," J. Exp. Med. 185(7):1327-1335 (1997)	

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	Filing Date	November 28, 2000
	First Named Inventor	Juha Punnonen
	Group Art Unit	1627-1679
	Examiner Name	Unassigned T. Wandy
	Attorney Docket Number	02-030310US
	Date Submitted	May 21, 2002

See Substitute  
105  
of 8/22/03

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
THW	1	5,252,714		Harris et al.	10-12-1993	
	2	5,264,563		Huse	11-23-1993	
	3	5,338,665		Schatz Et al	08-16-1994	
	4	5,348,867		Georgiou et al.	09-20-1994	
	5	5,470,725		Borriss et al.	11-28-1995	
	6	5,512,463		Georgiou et al.	09-20-1994	
	7	5,514,588		Varadaraj	05-07-1996	
	8	5,523,388		Huse	06-04-1996	
	9	5,571,698		Ladner et al.	11-05-1996	
	10	5,589,466		Felgner et al.	12-31-1996	
	11	5,593,972		Weiner et al.	01-14-1997	
Not in file	12	5,605,793		Stemmer et al	02-25-1997	
tdw	13	5,691,170		Gritz et al.	11-25-1997	
	14	5,698,426		Huse	12-16-1997	
	15	5,703,057		Johnston et al.	12-30-1997	
	16	5,723,323		Kauffman et al.	03-03-1998	
	17	5,763,192		Kauffman et al.	06-09-1998	
	18	5,763,239		Short et al.	06-09-1998	
	19	5,770,434		Huse	06-23-1998	
	20	5,783,386		Jacobs, Jr. et al.	07-21-1998	
	21	5,789,228		Lam et al.	08-04-1998	
	22	5,808,022		Huse	09-15-1998	
Not in file	23	5,811,238		Stemmer et al.	09-22-1998	

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First Named Inventor	Juha Punnonen
Group Art Unit	1627
Examiner Name	Unassigned
Attorney Docket Number	02-030310US
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thw	24	5,814,473		Warren et al.	09-29-1998	
	25	5,814,476		Kauffman et al.	09-29-1998	
	26	5,817,483		Kauffman et al.	10-06-1998	
	27	5,824,469		Horwitz et al.	10-20-1998	
	28	5,824,514		Kauffman et al.	10-20-1998	
	29	5,830,696		Short	11-03-1998	
	30	5,830,721		Stemmer et al.	11-03-1998	
	31	5,834,252.		Stemmer et al	11-10-1998	
	32	5,837,458		Minshull et al.	11-17-1998	
	33	5,862,514		Kauffman et al.	10-20-1998	
	34	5,866,344		Georgiou	02-02-1999	
	35	5,866,363		Pieczenik	02-02-1999	
	36	5,871,974		Huse	02-16-1999	
	37	5,876,997		Kretz	03-02-1999	
	38	5,882,883		Egel-Mitani et al.	03-16-1999	
↓	39	5,925,749		Mathur, et al.	07-20-1999	
Not	40	5,928,905.		Stemmer et al	07-27-1999	
on file	41	5,939,250		Short	08-17-1999	
thw	42	5,939,300		Robertson, et al.	08-17-1999	
	43	5,942,430		Robertson, et al.	08-24-1999	
	44	5,948,666		Callen, et al.	09-07-1999	
	45	5,955,358		Huse	09-21-1999	
Not on file	46	5,958,672		Short	09-28-1999	
thw	47	5,958,751		Murphy, et al.	09-28-1999	
thw	48	5,962,258		Mathur, et al.	10-05-1999	

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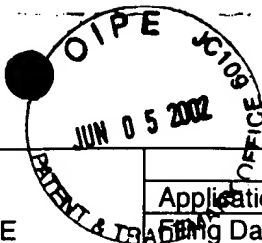
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	First Named Inventor	Juha Punnonen
	Group Art Unit	1627
	Examiner Name	Unassigned
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Not file	49	5,965,408		Short	10-12-1999	
file	50	5,962,283		Warren et al.	10-05-1999	
	51	5,976,862		Kauffman et al.	11-02-1999	
	52	5,985,285		Titball et al.	11-16-1999	
	53	5,985,646		Murphy, et al.	11-16-1999	
	54	5,989,553		Johnston, et al.	11-23-1999	
Not file	55	6,001,574		Short et al.	12-14-1999	
	56	6,004,788		Short	12-21-1999	
	57	6,030,779		Short	02-29-2000	
file	58	6,043,030		Beach et al.	03-28-2000	
Not file	59	6,054,267		Short	04-25-2000	
file	60	6,054,312		Lacocca et al.	04-25-2000	
Not file	61	6,057,103		Short	12-21-1999	
file	62	6,087,341		Khavari et al.	07-11-2000	
Not file	62A	6,096,548		Stemmer	08-01-2000	
	63	6,117,679		Stemmer	9-12-2000	
Not file	64	6,132,970		Stemmer	10-17-2000	
file	65	6,153,410		Arnold et al.	11-28-2000	
	66	6,156,511		Schatz et al.	12-05-2000	
	67	6,159,687		Vind	12-12-2000	
	68	6,159,688		Borchert et al.	12-12-2000	
	69	6,165,718		Borchert et al.	12-26-2000	
Not file	70	6,165,793		Short	12-26-2000	
file	71	6,168,919		Short	01-02-2001	
	72	6,171,820		Short et al.	01-09-2001	

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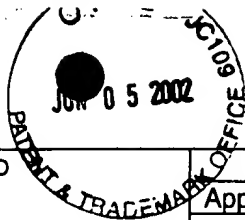
Not	73	6,174,673		Short et al.	01-16-2001	
on	74	6,177,263		Arnold et al.	01-23-2001	
for	75	6,180,406		Stemmer et al.	01-30-2001	
new	76	6,194,183		Markvardsen et al.	02-27-2001	
	77	6,238,884		Short et al.	05-29-2001	
	78	6,251,674		Tobin et al.	06-26-2001	
	79	6,261,561		Stewart, Jr. et al.	07-17-2001	
	80	6,287,861		Stemmer et al.	09-11-2001	

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		Office	Number	Kind Code (if known)				
Thw	81	EP	0 125 228	A1	President and Fellows of Harvard College	06-15-1988	COPY OF PAPERS ORIGINALLY FILED	
	82	EP	0554809	B1	Ixsys, Inc.	12-16-1998		
	83	EP	0563296	B1	Ixsys, Inc.	03-17-1999		
	84	EP	0 725081	A1	Kyowa Hakko Kogyo Co., Ltd.	08-07-1996		
	85	EP	0 752008	B2	Maxygen, Inc.	02-17-1995		
	86	EP	0876509	B1	Maxygen, Inc.	09-19-2001		
	87	EP	0911396	A2	Stemmer	04-28-1999		
	88	EP	0911396	A3	Stemmer et al.	05-06-1999		
	89	EP	0934999	A1	Stemmer et al.	08-11-1999		
	90	WO	90/14424		Scripps Clinic and Research	11-29-1990		

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TMW	91	WO	90/14443		Huse	11-29-1990	
	92	WO	91/07979		Center for Innovative Technology	06-13-1991	
	93	WO	92/03461		Ixsys, Inc.	03-05-1992	
	94	WO	92/06176		Ixsys, Inc.	04-16-1992	
	95	WO	92/06204		Ixsys, Inc.	04-16-1992	
	96	WO	92/11272		Ixsys, Inc.	07-09-1992	
	97	WO	93/06214		The United States of America	04-01-1993	
	98	WO	93/10214		Georgiou	05-27-1993	
	99	WO	94/06421		The University of Tennessee Research	03-31-1994	COPY OF PAPERS ORIGINALLY FILED
	100	WO	94/06911		Board of Regents, The University of Texas System	03-31-1994	
	101	WO	94/11496		Ixsys, Inc.	05-26-1994	
	102	WO	94/23738	A1	Medisorb Technologies International L.P.	10-27-1994	
	103	WO	94/25608		Baylor College of Medicine	11-10-1994	
	104	WO	94/26787	A1	The Boead of Trustees of the Leland Stanford Junior University	11-24-1994	
PPS	105	WO	95/22625		Stemmer et al.	08-24-1995	
tdw	106	WO	95/16027	A1	Borrebaeck	06-15-1995	

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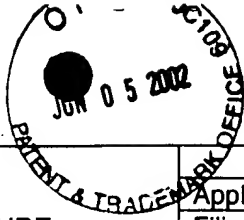
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110	WO	96/23882		The Rockefeller University	08-08-1996	
111	WO	96/31613		Board of Regents	10-10-1996	
112	WO	96/33207		Glaxo Group Limited	10-24-1996	
113	WO	96/37624		MG-PMC, L.L.C.	11-28-1996	
114	WO	97/04077		Recombinant Biocatalysis, Inc.	02-06-1997	
115	WO	97/07128	A1	Duke University	02-27-1997	
116	WO	97/07205		Okkels	02-27-1997	
117	WO	97/11605	A1	University of Pittsburg of the Commonwealth System of Higher Education	04-03-1997	COPY OF PAPERS ORIGINALLY FILED
118	WO	97/20078		Stemmer et al.	06-05-1997	
119	WO	97/25410		Borchert et al	07-17-1997	
120	WO	97/32987	A1	University of Toronto	09-12-1997	
121	WO	97/35957	A1	Stemmer	10-02-1997	
122	WO	97/35966		Maxygen Inc.	10-07-1997	
123	WO	97/44361		Lam et al.	11-27-1997	
124	WO	97/48416		Mathur et al.	12-24-1997	
125	WO	97/48717		Short et al.	12-24-1997	
126	WO	97/48794		Murphy et al.	12-24-1997	

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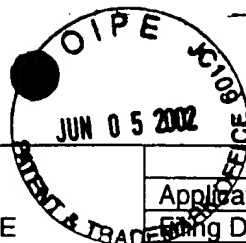
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thw	127	WO	98/00526		Robertson et al.	01-08-1998		
	128	WO	98/01581		Short	01-15-1998		
	129	WO	98/05764		Novo Nordisk	02-12-1998		
	130	WO	98/05765		Novo Nordisk	02-12-1998		
	131	WO	98/13485		Stemmer et al.	04-02-1998		
	132	WO	98/13487		Stemmer et al.	04-02-1998		
	133	WO	98/24799		Bylina	06-11-1998		
	134	WO	98/27230		Patten et al.	06-25-1998		
	135	WO	98/28416		Bjornvad et al.	07-02-1998		
	136	WO	98/31816		Regents of the University of Minnesota	07-23-1998		COPY OF PAPERS ORIGINALLY FILED
	137	WO	98/31837		Delcardayre et al.	07-23-1998		
	138	WO	98/36080		Affholter et al.	08-20-1998		
	139	WO	98/41622		Borchert et al.	09-24-1998		
	140	WO	98/41623		Borchert et al.	09-24-1998		
	141	WO	98/41653		Vind et al.	09-24-1998		
W	142	WO	98/42727		SRI International	10-01-1998		
thw	143	WO	98/42832		Arnold et al.	10-01-1998		
	144	WO	98/45444		The Regents of the University of California	10-15-1998		
	145	WO	98/48034		Neiboer et al.	10-29-1998		
	146	WO	98/49286		Board of Regents, The University of Texas System	11-05-1998		
W	147	WO	98/58085		Short et al.	12-23-1998		

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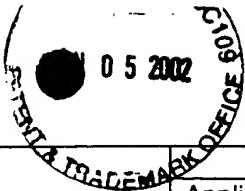
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148	WO	99/07837	Callen	02-18-1999	
149	WO	99/08539	Kretz	02-25-1999	
150	WO	99/10472	Short	03-04-1999	
151	WO	99/10539	Short	03-04-1999	
152	WO	99/19506	Ixsys, Inc.	04-22-1999	
154	WO	99/19518	Short	04-22-1999	
155	WO	99/21979	Apt et al.	05-06-1999	
156	WO	99/23107	Stemmer et al.	05-14-1999	
157	WO	99/23236	Diversa Corp. et al.	05-14-1999	
158	WO	99/29902	Arnold et al.	06-17-1999	
159	WO	99/41366	The Board of Trustees of the Leland Stanford Junior University	08-19-1999	COPY OF PAPERS ORIGINALLY FILED
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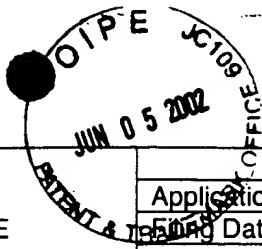
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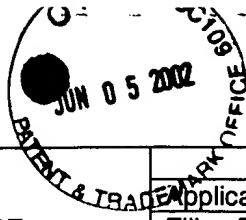
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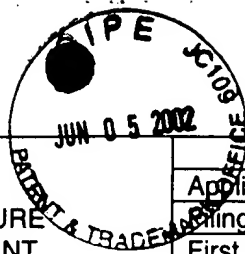
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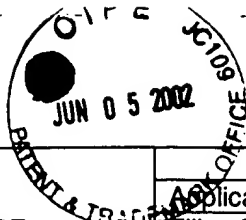
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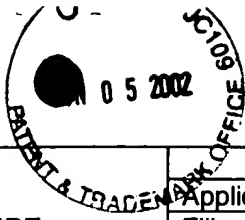
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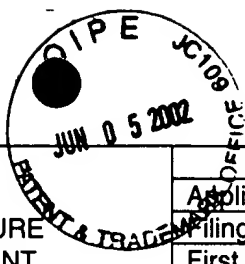
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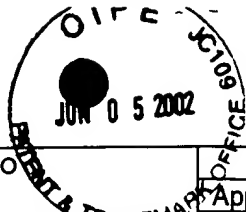
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TDW	339	Pryor et al. (1998) "Growth restriction of dengue virus type 2 by site-specific mutagenesis of virus-encoded glycoproteins." <i>J. Gen Virol.</i> 79:2631-2639	
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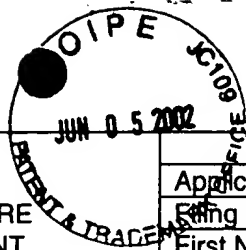
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